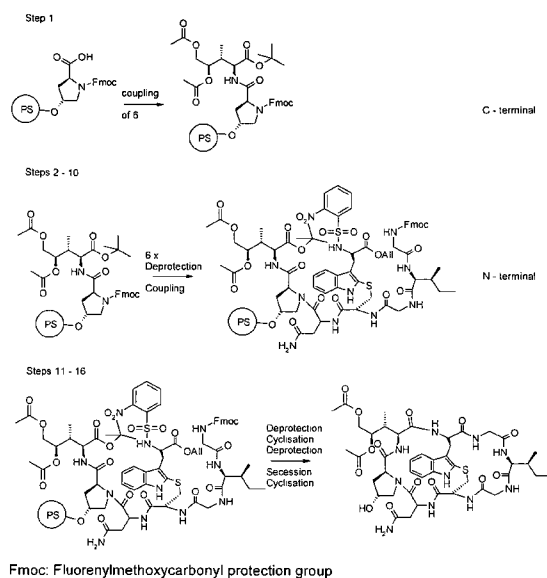




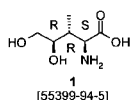
- (51) **International Patent Classification:**
C07C 229/22 (2006.01) *C07K 7/52* (2006.01)
- (21) **International Application Number:**
PCT/EP2013/002084
- (22) **International Filing Date:**
12 July 2013 (12.07.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12005173.5 13 July 2012 (13.07.2012) EP
- (71) **Applicant:** HEIDELBERG PHARMA GMBH [DE/DE];
Schriesheimer Strasse 101, 68526 Ladenburg (DE).
- (72) **Inventors:** LUTZ, Christian; Am Feldrain 36, 69469
Weinheim (DE). MUELLER, Christoph; Mumbacher Str.
38, 69488 Birkenau (DE). SIMON, Werner; In der Leih-
wiese 29, 55595 Hüffelsheim (DE).
- (74) **Agent:** VIRNEKAES, Bernhard; Wallinger Ricker
Schlotter Foerstl, Zweibrückenstrasse 5-7, 80331 Munich
(DE).
- (81) **Designated States** (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States** (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

[Continued on next page]

- (54)
- Title:**
- METHODS FOR SYNTHESIZING AMATOXIN BUILDING BLOCK AND AMATOXINS

Figure 3

- (57)
- Abstract:**
- The invention relates to novel methods for syn-
-
- thesizing a synthon for
- γ,δ
- dihydroxyisoleucine 1 (CAS No.
-
- 55399-94-5] as building block for the synthesis of amatoxins, and
-
- for novel methods for synthesizing amatoxins using such building
-
- block.



WO 2014/009025 A1



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, **Published:**
KM, ML, MR, NE, SN, TD, TG).

— *with international search report (Art. 21(3))*